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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/566,954	01/31/2006	Claes Gustafsson	11548-003-999	5349	
20583	7590	07/10/2008	EXAMINER		
JONES DAY 222 EAST 41ST ST NEW YORK, NY 10017		BORIN, MICHAEL L			
		ART UNIT		PAPER NUMBER	
		1631			
		MAIL DATE		DELIVERY MODE	
		07/10/2008		PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/566,954	GUSTAFSSON ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Michael Borin	1631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 06 May 2008.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-6,8-14,16,20-23,49-52,74-97 and 121-126 is/are pending in the application.
- 4a) Of the above claim(s) 12 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) \_\_\_\_\_ is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) 1-6,8-11,13,14,16,20-23,49-52,74-97 and 121-126 are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ .  | 6) <input type="checkbox"/> Other: _____ .                        |

**DETAILED ACTION**

Response to restriction requirement filed 05/06/2008 is acknowledged.

Applicant elected, without traverse, Group I, claims 1-6, 8-14, 16, 20-23, 49-52, 74-97, 121-126, drawn to a method for constructing a variant set for an antibody.

Claims 66-68, 98-100 and 127 are canceled.

Claims 1-6,8-14,16,20-23,49-52, 74-97,121-126 are pending.

***Election of species requirement***

Pursuant to election of species requirement, applicant made the following elections:

For Group A - Rule for step a), selected from those listed in claim 6 - applicant elected (ii) a physico-chemical property of an amino acid at a position within a plurality of antibody sequences as set forth in claim 6

For Group B - A descriptor of first value, selected from i), ii), or iii) from claim 8 – applicant elected (i) a substitution at a position in said plurality of positions represented by all or said portion of the variants

For Group C - A modeling step d), selected from those in claims 11,12 - applicant elected computation of a generalized additive model as set forth in claim 11.

Claim 12 is withdrawn from consideration as drawn to non-elected species.

Further, with respect to election of species requirement, first, while applicant made the elections, Examiner now acknowledges that requiring elections from Groups D and F separately resulted in conflicting elections; for example claims 16 and 20 are non-elected for species Group D, but are elected claims for species Group F. To resolve this ambiguity, the election of species requirement is re-stated below, with Groups D and F combined into Group D.

Second, with respect to Group E - A property measuring step - the election of species requirement is revised to include more claims directed to further property steps of step (c) of claim 1.

The following elections of species are required:

- D. Type of further step performed in addition to the steps of claim 1, selected from the following: addressed in claims 2,3, or addressed in claim 4, or addressed in claim 13, or addressed in claim 16, or addressed in claim 20, or addressed in claim 21, or addressed in claim 22, or addressed in claim 23.
- E. A further step in step c), selected from those in claims 49-51, or claim 81, or claim 82, or claims 83-84, or claim 85, or claim 87, or claim 89, or claims 91-92, or claims 93-94.

Applicant is required under 35 U.S.C. 121 to make a re-election of a single disclosed species from group (F), AND group (E).

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Borin whose telephone number is (571) 272-0713. The examiner can normally be reached on 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marjorie Moran can be reached on (571)272-0720 . The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Borin, Ph.D./  
Primary Examiner, Art Unit 1631

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